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YAGINUMA et al.(10) **Pub. No.: US 2021/0292709 A1**(43) **Pub. Date: Sep. 23, 2021**(54) **MANUFACTURING METHOD FOR
SUBSTRATE ON WHICH NERVE CELLS
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(2013.01); **C12N 2537/00** (2013.01)(57) **ABSTRACT**

An object of the present invention is to provide a technique for precisely arranging nerve cells on a substrate while suppressing the migration of nerve cells.

A manufacturing method for a substrate on which nerve cells are arranged is provided, the method including a step of arranging, on a substrate, a plurality of liquid droplets containing nerve cells by an inkjet method to form one or a plurality of liquid pools, the substrate having a region in which a cell adhesive material is arranged and a region in which a cell non-adhesive material is arranged; and a step of incubating the liquid pool until the nerve cells sediment and temporarily adhere onto the substrate to form a cell aggregate. The diameter per one liquid pool is 500 μm or less, and the density of nerve cells per one liquid pool is 10^5 cells/ cm^2 or more.

